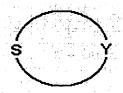
## We claim:

- 1. An ink jet recording material comprising a support and at least one image recording layer, wherein on the upper side of the image recording layer there is deposited a protective layer containing an organic sulphurcontaining compound which forms complexes with metal ions and a boric acid compound and wherein the image recording layer and/or the protective layer contains an organic compound having the formula MeX or MeX<sub>2</sub> where Me is a transition metal from group VIb, VIIb, VIIIb, Ib and IIb in the Periodic Table and X is an anion of a carboxylic acid having 4 to 12 carbon atoms.
- 2. The recording material according to claim 1, wherein the image receiving layer contains at least one dye-fixing layer and at least one ink absorbing layer.
- The recording material according to claim 1 wherein the transition metal is selected from the group consisting of copper, cobalt, nickel, and manganese.
- 4. The recording material according to claim 1 wherein the anion is an anion of a hydroxycarboxylic acid.
- 5. The recording material according to claim 4 wherein the hydroxycarboxylic acid is selected from gluconic acid, glucaric acid, succinic acid, hydroxysuccinic acid (malic acid), 2,3-dihydroxysuccinic acid (tartaric acid) and their mixtures.
- 6. The recording material according to claim 4 wherein the hydroxycarboxylic acid is selected from the group of compounds containing an aromatic ring, especially hydroxybenzoic acids such as 2-hydroxybenzoic acid (salicylic acid), 3-hydroxybenzoic acid, 4-

hydroxybenzoic acid, 2,4,5-trihydroxybenzoic acid, 4- or 5-sulphosalicylic acid, 4- or 5-hydroxythiosalicylic acid.

- 7. The recording material according to claim 1 wherein the anion is selected from ethylene diamine tetracetic acid (EDTA), ethylene diamine triacetic acid, hydroxyethyl ethylene diamine tetracetic acid (HEEDTA), nitrolo triacetic acid or their salts.
- 8. The recording material according to claim 1 wherein the metalcompound-containing layer contains a hydroxybenzoic sulphonic acid as another component.
- 9. The recording material according to claim 1 wherein the complex-forming organic sulphur compound is a compound having the general formula R<sub>2</sub>C=S, whereby R equally or independently of one another is hydrogen, an NH<sub>2</sub> group, an NHR<sup>1</sup> group, an NR<sup>1</sup><sub>2</sub> group, a methyl, ethyl, propyl, isopropyl group, a substituted or non-substituted aryl with 5 to 12 carbon atoms or alkoxy with 1 to 3 carbon atoms, or both groups R form an aromatic or non-aromatic ring with 5 or 6 carbon atoms which can contain nitrogen and/or sulphur as a heteroatom, wherein R<sup>1</sup> equally or independently of one another has the same meaning as R.
- 10. The recording material according to claim 1 wherein the complexforming organic sulphur-containing compound is a compound having the general formula



wherein Y denotes the atoms required to form a substituted or non-substituted aromatic or non-aromatic ring.

- 11. The recording material according to claims 1 to 8, wherein the complex-forming organic sulphur-containing compound is a compound having the general formula R<sub>2</sub>S, wherein R equally or independently of one another denotes hydrogen, alkyl with 1 to 6 carbon atoms, substituted or non-substituted aryl with 5 to 12 carbon atoms, alkoxy with 1 to 3 carbon atoms, an NH<sub>2</sub> group, an NHR<sup>1</sup> group, an NR<sup>1</sup><sub>2</sub> group, OR<sup>1</sup>, wherein R<sup>1</sup> has the same meaning as R.
- 12. The recording material according to claim 1 wherein the metal compound/sulphur-containing compound weight ratio is 1:1 to 1:2.